

1000VDC FLOATING OR EARTHED SYSTEM, COMBINED LIGHTNING & VOLTAGE SURGE ARRESTER TYPE 1 & 2: I_{max} 40KA 8/20 & I_{imp} 12.5KA per pole 10/350

TYPE: SAFETEC BR 12.5/1000VDC Y PV TCG

PRODUCT GROUP
HH

253

FEATURES

- Type 1 & 2 combined
- Protection level 8/20 40KA, 10/350 12.5KA per pole
- Wired in parallel
- Suitable for floating or Earthed DC systems
- Suitable for solar PV & railway applications
- No leakage current
- No fusing required
- With auxiliary contact
- Flag indication

Raycap



DESCRIPTION & MODE OF OPERATION

Modular 2 pole combined lightning 10/350 and voltage surge arrester 8/20 conforming to the latest IEC / EN standards Class I & II (Type 1 & 2), to protect against the effects of lightning strikes and the resultant induced voltages.

The units are suitable for both DC floating or Earthed systems and are wired in parallel and the need of fusing is not required. Wiring of a floating system requires the Earth (PE terminals) to be bonded to Earth, for a negative Earthed system the negative terminal and PE terminals are both connected to the negative voltage rail, the opposite applies for a positively Earthed system.

The unit has a front mechanically driven flag indicator per pole, green for healthy and red for fault, plus a mechanically driven auxiliary C/O contact. In a healthy state the contact is made between terminals 11 & 12. In the event of the MOV's failing due to an intense or multiple surges the contact will change state to 11 & 14 (also indicated by the red flag). In this state protection has been lost, the unit will need replacing.

SPECIFICATIONS

Complies with:	EN50539-11:2013
Category:	Class I & II / Type 1 & 2
Protection via:	High energy MOV's (Metal Oxide Varistors) & GDT (Gas Discharge Tube)
Nominal discharge current 8/20:	12.5KA per pole
Max discharge current 8/20:	40KA
Impulse current 10/350:	12.5KA per pole
Total impulse current 10/350:	25KA
Specific energy:	39KJ / Ohm per pole
Response time:	<25n Sec
Thermal protection:	Yes
Short circuit withstand current:	1000 Amps
Operating temperature range:	-40°C to +70°C
Terminal cross section:	Max 35mm ² solid cable / 25mm ² stranded cable
Module size:	2 pole (4 modules, 72mm), 3 pole (6 modules, 108mm), 4 pole (8 modules, 144mm)
Auxiliary contact:	Yes
Contact rating:	250VAC/0.5 Amps / 125VAC/3 Amps
Max DC continuous voltage:	1000V
Protection level:	<4.6KV

ORDERING INFORMATION

TYPE

SAFETEC BR 12.5/1000VDC Y PV TCG 54.0583

